TYPE CVKR

Silent (Non-Slam) Check Valve

Large-bore wafer pattern · **DN 300 – 1200** · **PN 10 / 16 / 25** · Water service

1 PURPOSE & APPLICATION

The large-bore CVKR silent check valve uses a body profiled to suit the hydraulics, giving a smoothly faired water path, and an internal flow guide body that holds pressure loss to a minimum. Fitted at pump discharge, it closes quickly before the water column reverses, avoiding water hammer, shock noise and destructive shock loading — giving silent operation, reliable backflow prevention and protection of the equipment upstream. Widely used in water supply and drainage, plumbing, fire protection, HVAC and industrial systems.

- Hydraulically faired flow path
- Flow guide body — minimum pressure loss
- Silent closing, prevents water hammer

2 TECHNICAL SPECIFICATION

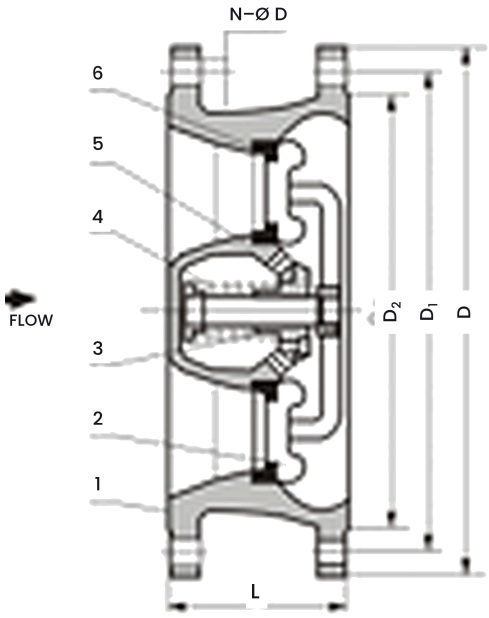
Nominal diameter DN (mm)	300 – 1200
Nominal pressure PN (MPa)	1.0 / 1.6 / 2.5
Working temperature	0 °C – 80 °C
Seal test pressure	1.1 × PN
Shell test pressure	1.5 × PN

3 MATERIALS

No.	Part	Material
1	**Body**	GG25 grey cast iron
2	**Valve disc**	QAl9-4 aluminium bronze
3	**Bearing**	QAl9-4 aluminium bronze
4	**Spring**	SUS316 stainless steel
5	**Flow guide body**	GG25 grey cast iron
6	**Seat ring**	QAl9-4 aluminium bronze

4 CONSTRUCTION

SECTIONAL ARRANGEMENT



5 MAIN EXTERNAL & CONNECTING DIMENSIONS

Type	DN (mm)	L	D		D_1		D_2		N-Ø D	
			1.0 MPa	1.6 MPa	1.0 MPa	1.6 MPa	1.0 MPa	1.6 MPa	1.0 MPa	1.6 MPa
CVKR-0300	**300**	**181**	460		400	410	370		12-23	12-27
CVKR-0350	**350**	**184**	520		460	470	429		16-23	16-27
CVKR-0400	**400**	**191**	580		515	525	480		16-27	16-31
CVKR-0450	**450**	**203**	640		565	585	530		20-27	20-31
CVKR-0500	**500**	**219**	715		620	650	582		20-27	20-34
CVKR-0600	**600**	**222**	810	840	725	770	682		20-31	20-37
CVKR-0700	**700**	**280**	895	910	840	840	794		24-31	24-37
CVKR-0800	**800**	**356**	1015	1025	950	950	901		24-34	24-40
CVKR-0900	**900**	**368**	1125		1050	1050	1001		28-40	28-40
CVKR-1000	**1000**	**432**	1230	1255	1160	1170	1112		28-43	28-43
CVKR-1200	**1200**	**524**	1455	1485	1380	1390	1328		32-49	32-49

Key — all dimensions in millimetres. **L** face-to-face length · **D** flange outside diameter · **D_1** bolt circle diameter (PCD) · **N–Ø D** number × diameter of bolt holes · **D_2** as shown on the drawing. Item numbers 1–6 correspond to the materials table; a value spanning both pressure columns applies to PN 10 and PN 16 alike.